

Kevin H. Evans

Software developer interested in web development, usability, FOSS, and rapid prototyping.

Experience

Software developer consultant

Innotech Engineering, LLC, May 2022–*present*

- Created firmware with unit tests for ESP32 and Azure Sphere modules
- Built frontends with React using TypeScript, FastAPI backends
- Created Python RESTful applications integrated with physical devices over RS232/485
- Reverse-engineered industrial equipment for shimming purposes
- Utilized Postgres, MySQL, Redis, NATS.io for storage and messaging
- Developed Android and iOS apps using Flutter, integrated with BLE connectivity

Researcher

Washington State University, Feb. 2021–Dec. 2021

- Studied Bose-Einstein condensates in one-dimension
- Performed physics simulations using IPython notebooks using NumPy

Engineering internship

Schweitzer Engineering Laboratories, Aug. 2019–Jan. 2020

- Built IRIG-B decoder on an FPGA to sync satellite time over AXI
- Developed firmware in C for Xilinx Zynq SoCs
- Created RTL designs in both Verilog and VHDL with simulations
- Used NEON SIMD instructions for processing peripheral data

Engineering internship

NASA Jet Propulsion Laboratory/California Institute of Technology, May 2019–Aug. 2019

- Integrated Splunk into the Mars Relay Operations Service (MaROS)
- Built Python connectors between the various MaROS backend subsystems
- Created simple models to predict and warn of potential future errors

Software developer

ThriftBooks.com, Sep. 2015–Oct. 2017

- Developed e-commerce web applications in C# for ASP.NET MVC
- Created React components with Redux using JavaScript (ES6)
- Created Windows Services to sync inventory/sales data with Google and BingAds
- Extensively used TFS with Git on a team practicing agile methodology

Software developer

Ozone International, LLC, Jan. 2014–Sep. 2015

- Designed and developed RESTful API with Node.js, monitoring hundreds of machines on a global network
- Created optimized and partitioned MySQL cluster with billions of data points
- Built Angular.js frontend with Bootstrap with VNC functionality

Education

BSc. Computer Engineering; BSc. Physics

Washington State University, 2022, *summa cum laude*

Activities: Men's varsity rowing, IEEE, Tau Beta Pi, Cougs in Space (NASA CubeSat initiative).

Capstones: *Chaos in Bose-Einstein Condensates in One-Dimension*; *AquaSmart: Surface water quality monitoring*.

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LinkedIn: khevans

Pref. languages

C, TypeScript, Dart, TeX,
Python (3+)

Tools

Git, Linux, Docker, Jira,
Confluence, KiCAD

Languages

English (fluent)
Japanese (partial)